REMARKS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-26 are pending in the present application. Claims 1, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, and 26 are amended by the present amendment.

In the outstanding Office Action, the Title was objected to; Claims 7-16 were rejected under 35 U.S.C. § 112, second paragraph; Claims 1-8 were rejected under 35 U.S.C. § 103(a) as unpatentable over Olsson (U.S. Patent 6,577,596) in view of Background Art (BA); Claims 9, 10, 15, 16, 21, and 22 were rejected under 35 U.S.C. § 103(a) as unpatentable over Olsson in view of BA and Jorgensen (U.S. Patent No. 6,452,915); and Claims 11-14, 17-20, and 23-26 were rejected under 35 U.S.C. § 103(a) as unpatentable over Olsson, BA, and Jorgensen.

Regarding the objection to the Title, a new Title is added as suggested by the outstanding Office Action. No new matter has been added. Accordingly, it is respectfully requested this objection be withdrawn.

Regarding the rejection of Claims 7-16 under 35 U.S.C. § 112, second paragraph, independent Claims 7, 9, 11, 13, 15, and 17, have been amended to recite that plural data units, which belong to one of a quality of signal (QoS) class, are assembled together. No new matter has been added. Accordingly, it is respectfully requested this rejection be withdrawn.

In view of the outstanding grounds of rejection of the claims, independent Claims 1, 7, 9, 11, 13, 15, 17, 19, 21, 25, and 26 have been amended to recite that each queued packet to be transmitted from a transmitting node is divided into a plurality of predetermined data units and a length of the predetermined data unit is set shorter than a length of a typical packet. The claim amendments find support, for example, in the specification at page 12, line 34 to page 13, line 2, No new matter has been added.

Briefly recapitulating, amended Claim 1 is directed to a packet transmission method for transmitting packets classified according to a QoS requirement. The method includes, *inter alia*, selecting sequentially, in a transmitting node, a QoS class and dividing each queued packet to be transmitted into a plurality of predetermined data units. A length of the predetermined data unit is set shorter than a length of a typical packet.

Turning to the applied art, Olsson discloses a method for packet delay reduction using scheduling and header compression. Olsson shows in Figure 2 that plural conventional (typical) packets 211, 212, and 213 are directed to various buffers 221-224 based on time priorities D1 to D4 given to each packet. A long packet 213 may be fragmented into smaller packets 213a-d. Thus, Olsson does not teach or suggest that the packets 211, 212, and 213 are selected sequentially according to a QoS class as required by independent Claims 1, 7, 9, 11, 13, 15, 17, 19, 21, 25, and 26.

In this respect, it is noted that Olsson discloses in the paragraph bridging columns 6 and 7 that "[e]xemplary data packets **211, 212**, and **213** are shown entering network layer **210**." However, Olsson does not teach or disclose that these exemplary data packets 211, 212, and 213 are selected from, or are part of a same QoS class. To the contrary, it appears that data packet 211 is from a different QoS class than the data packet 212 (the subsequent data packet) because different time priorities D1 and D4 are assigned to the data packets 211 and 212, respectively.

In addition, Olsson discloses at column 7, lines 7-17, that "[l]ong packets such as represented by packet **213** may be fragmented into smaller packets as represented by packets **213a, 213b**, and **213d**." It is noted that the packets of Olsson are typical packets while the claimed predetermined data units have a length shorter than a length of the typical packets.

Therefore, Applicants respectfully submit that Olsson does not teach or suggest that *each* group packet to be transmitted is divided into a plurality of predetermined data units, the

fragmented packets are predetermined data units (the length of the fragmented packets 213a-d is not fixed), and a length of the predetermined data unit is shorter than a length of a typical packet, as required by amended Claims 1, 7, 9, 11, 13, 15, 17, 19, 21, 25, and 26.
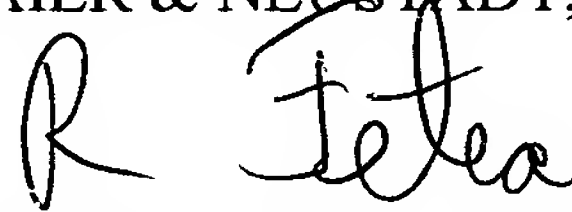
The remaining applied art has been considered but none cures the deficiencies of Olsson discussed above with regard to independent Claim 1.

Accordingly, it is respectfully submitted that independent Claims 1, 7, 9, 11, 13, 15, 17, 19, 21, 25, and 26 and each of the claims depending therefrom patentably distinguish over Olsson, BA, and Jorgensen, either alone or in combination.

Consequently, in light of the above discussion and in view of the present amendment, the present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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